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Corrigendum

Corrigendum to "Search for dijet resonances in proton–proton collisions at $\sqrt{s} = 13$ TeV and constraints on dark matter and other models" [Phys. Lett. B 769 (2017) 520–542]

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This corrigendum refers to an error in the CMS excluded regions in the scattering of dark matter (DM) particles on nucleons as a function of the DM mass (m_{DM}) in Ref. [1]. A translation formula, used to relate the DM-nucleon interaction cross section to the mass of the dark matter mediator, neglected a dependence on m_{DM} by using the nucleon mass in place of the reduced mass of the DM-nucleon system. The excluded range in the DM-nucleon interaction cross section in Fig. 5 of Ref. [1] was incorrectly shown as being independent of m_{DM} at low values of mass, roughly below 40 GeV. The correct CMS excluded region for $m_{\mathrm{DM}} > 1$ GeV, where the translation formula is reliable, is presented here in Fig. 1, which replaces Fig. 5 of Ref. [1].

References

[1] CMS Collaboration, Search for dijet resonances in proton–proton collisions at $\sqrt{s} = 13$ TeV and constraints on dark matter and other models, Phys. Lett. B 769 (2017) 520, arXiv:1611.03568.

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0370-2693

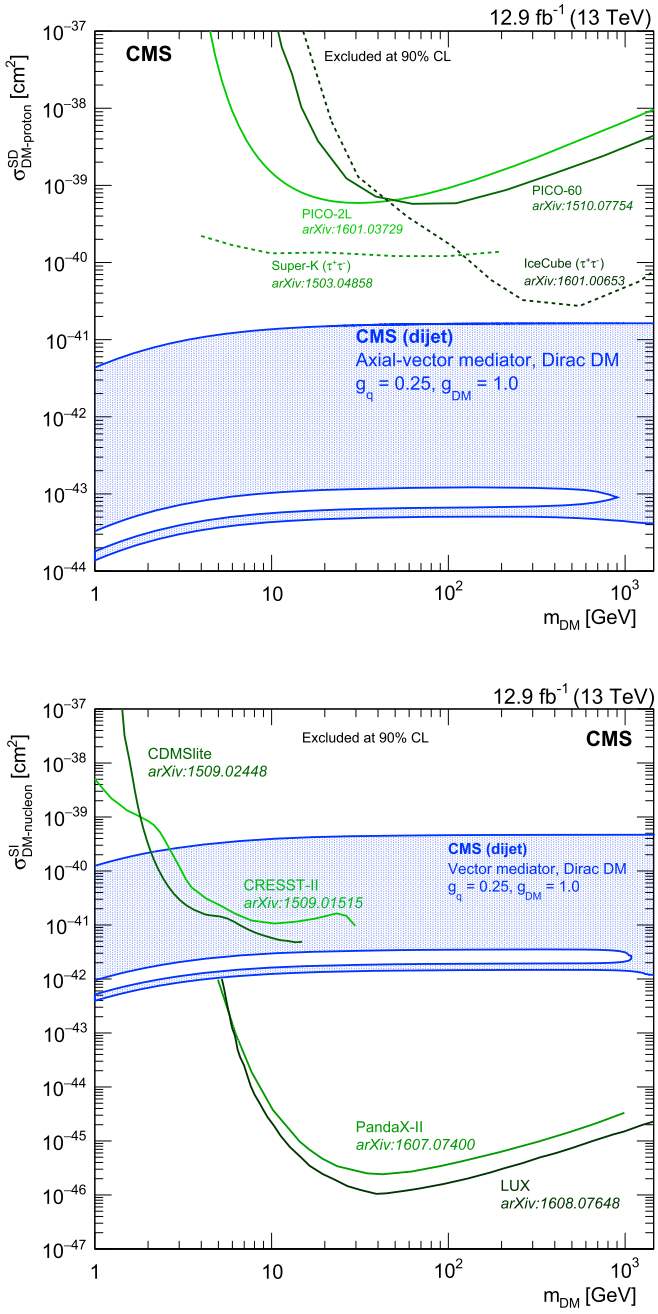

Fig. 1. Excluded regions at 90% CL in the plane of dark matter nucleon interaction cross section as a function of dark matter mass. See caption of Fig. 5 in Ref. [1] for additional details.